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21186 7590 09/20/2006

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. BOX 2938
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12/27/2006 FMETEK12 00000036 190743 10643580

01 FC:1501 1400.00 DA
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CHRISTOPHER BARTL	(Depositor's name)
	(Signature)
DECEMBER 20, 2006	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,580	08/18/2003	Andrew B. Hastings	1376.721US1	3953

TITLE OF INVENTION: MAPPING AN ARBITRARY NUMBER OF CONTIGUOUS MEMORY PAGES AT AN ARBITRARY ALIGNMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$0	\$0	\$1400	12/20/2006

EXAMINER	ART UNIT	CLASS-SUBCLASS
THOMAS, SHANE M	2186	711-171000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). <input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. <input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
1	Schwegman, Lundberg,
2	Woessner & Kluth, P.A.
3	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

CRAY INC.

SEATTLE, WASHINGTON

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. The following fee(s) are submitted:

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 Publication Fee (No small entity discount permitted)
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A check is enclosed.
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 The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 10-0143 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

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Authorized Signature Thomas F. Brennan

Date 12/20/06

Typed or printed name THOMAS F. BRENNAN

Registration No. 35,075

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Andrew B. Hastings

Title: MAPPING AN ARBITRARY NUMBER OF CONTIGUOUS MEMORY PAGES AT AN ARBITRARY ALIGNMENT

Docket No.: 1376.721US1

Serial No.: 10/643,580

Filed: August 18, 2003

Due Date: December 20, 2006

Examiner: Shane M. Thomas

Group Art Unit: 2186

Customer No.: 21186

Confirmation No.: 3953

Commissioner for Patents

Notice of Allowance Date:

Attn: MAIL STOP ISSUE FEE

September 20, 2006

P.O. Box 1450

Alexandria, VA 22313-1450

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- Authorization to charge deposit account 19-0743 in the amount of \$1400.00 to cover the Large Entity Issue Fee Payment.
- Authorization to charge deposit account 19-0743 in the amount of \$30.00 to cover the Extra Patent Copies Fee (10 copies).
- Issue Fee Transmittal (Form PTOL-85).
- A return postcard.

Please charge any additional required fees for the Issue Fee Payment or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

By Thomas J. Brennan

Customer Number: 21186

Thomas F. Brennan

Reg. No. 35,075

TFB/cmb

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ANDREW B. HASTINGS
Name

Signature

CBM